

## GRANULAR DETERGENT COMPOSITION OF HIGH BULK DENSITY

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### Abstract

**PURPOSE:** To eliminate re-contamination of other nonwashed cloth in washing and also to improve the shelf stability by carrying out powder mixing of anionic surfactant-containing detergent particles and specific nonionic surfactant-containing nonionic surfactant particles at a specific ratio.

**CONSTITUTION:** Components (A) and (B) described below are compounded at an A to B weight ratio of 25/1 to 2/1. Component (A) comprises detergent particles containing 20-50wt.% anionic surfactants. Component (B) comprises nonionic surfactant particles containing 5-50wt.% nonionic surfactants shown by formula 1 (where R is a linear or branched 8-18C alkyl or alkenyl group; x=2-7). Further various additives may be added in addition to the anionic surfactants to the component (A) detergent particles. The additives include, for example, an inorganic builder, a Ca-ion capturing builder, an alkali builder, a viscosity modifier, an enzyme, a softening agent, a fluorescent agent, etc. The nonionic surfactant particles of component (B) can be prepared by use of an adequate carrier.

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